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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<b>IDS FORM</b> <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/588,818
				Filed	August 9, 2006
				First Named Inventor	Takahide NISHI
				Group Art Unit	1614
				Examiner Name	Alicia R. HUGHES
Sheet	1	of	15	Attorney Docket Number	06439/HG

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\*English-language abstract enclosed; also JP 11-80026 is a related family member of USP 6,004,565; USP 6,667,025 and US 2004/0092603

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<b>IDS FORM</b> <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number		10/588,818
		Filed		August 9, 2006
		First Named Inventor		Takahide NISHI
		Group Art Unit		1614
		Examiner Name		Alicia R. HUGHES
Sheet	10	of	15	Attorney Docket Number

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		WO	01/08685	A1	VERTEX PHARMACEUTICALS INC	02-08-2001		
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\*EP 1 201 236 IS A RELATED FAMILY MEMBER OF WO 01/01978

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**\*\*USP 5,604,229 IS A RELATED FAMILY MEMBER OF WO 94/08943**

**\*\*\*USP 6,214,873 IS A RELATED FAMILY MEMBER OF WO 98/45249**

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		<p>CATIVIELA et al., "Stereoselective synthesis of quaternary <math>\alpha</math>-amino acids, Part 1: Acyclic compounds", <u>Tetrahedron: Asymmetry</u>, <u>9</u>, pp. 3517-3599 (1998).</p> <p>GANDER-COQUOZ et al., "Synthesis of EnantiomERICALLY Pure, <math>\alpha</math>-Alkylated Lysine, Ornithine, and Tryptophan Derivatives", <u>Helvetica Chimica Acta.</u>, <u>71</u>, pp. 224-236, (1988).</p> <p>SANO et al., "Lewis Acid- and Cationic Lithium-Mediated Diastereoselective Aldol-Type Reaction Based on a Double Chiral Recognition Manner for the Asymmetric Synthesis of <math>\alpha</math>-Substituted Serines", <u>Tetrahedron Letters</u>, <u>36</u>, No. 23, pp. 4101-4104 (1995)</p> <p>NAGAO et al., "Efficient Preparation of New Chiral Synthons Useful for (+)-Carbacyclin Synthesis by Utilizing Enzymatic Hydrolysis", <u>Chemistry Letters</u>, pp. 239-242 (1989).</p> <p>TAMAI et al., "Enzymatic Hydrolyses of the <math>\delta</math>-Symmetric Dicarboxylic Diesters Bearing a Sulfinyl Group as the Prochiral Center, <u>Chemistry Letters</u>, pp. 2381-2384 (1994).</p> <p>CASARRUBIO et al., "On the Syntheses of Thiophene Analogs of Practolol and 'Reversed' Practolol", <u>J. Heterocyclic Chem.</u>, <u>20</u>, 1557-1560 (1983).</p> <p>CHARETTE et al., "Syntheses of <math>\alpha</math>, <math>\alpha</math>-Disubstituted-<math>\alpha</math>-Amino Acids by Double Nucleophilic Addition to Cyanohydrins", <u>Tetrahedron Letters</u>, <u>39</u>, 5147-5150 (1998).</p>	
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		<p>ADACHI et al., "Design, Synthesis, and Structure-Activity Relationships of 2-Substituted-2-Amino-1,3-Propanediols: Discovery of a Novel Immunosuppressant, FTY720," <u>Bioorganic &amp; Medicinal Chemistry Letters</u>, Vol. 5, No. 8, pp. 853-856, 1995.</p> <p>CHIBA et al., "FTY720: Immunosuppressant," <u>Drugs of the Future</u>, 22(1):18-22 (1997).</p> <p>CONSTANTINOU-KOKOTOU et al., "Synthesis of optically active lipidic <math>\alpha</math>-amino acids and lipidic 2-amino alcohols," <u>Amino Acids</u>, (1999) 16:273-285.</p> <p>CONSTANTINOU-KOKOTOU et al., "Synthesis and biological activities of long chain 2-amino alcohols," <u>Letters in Peptide Science</u>, 9:143-152, 2002.</p> <p>DAGAN et al., "Synthetic, non-natural sphingolipid analogs inhibit the biosynthesis of cellular sphingolipids, elevate ceramide and induce apoptotic cell death," <u>Biochimica et Biophysica Acta</u>, 1633(3):161-169 (2003).</p> <p>FUJITA et al., "Simple Compounds, 2-Alkyl-2-Amino-1,3-Propanediols Have Potent Immunosuppressive Activity," <u>Bioorganic &amp; Medicinal Chemistry Letters</u>, Vol. 5, No. 8, pp. 847-852, 1995.</p> <p>FUJITA et al., 2-Substituted 2-Aminoethanol: Minimum Essential Structure for Immunosuppressive Activity of ISP-I (Myriocin)," <u>Bioorganic &amp; Medicinal Chemistry Letters</u>, Vol. 5, No. 16, pp. 1857-1860, 1995.</p> <p>FUJITA et al., "2-Aminoalcohol: Minimum essential structure of immunosuppressive activity of ISP-I (myriocin)," <u>Tennen Yuki Kagobutsu Toronkai Koen Yoshisyu</u>, 38:727-732 (1996).</p> <p>FUJITA et al., "Potent Immunosuppressants, 2-Alkyl-2-aminopropane-1,3-diols," <u>J. Med. Chem.</u>, 1996, 39, 4451-4459.</p> <p>FUJITA et al., "Design of Novel Immunosuppressants Based on Fungal Metabolites," <u>International Symposium on Natural Medicines</u>, PL-1, p. 3-4, 1997, Kyoto, Japan.</p> <p>HINTERDING et al., "Synthesis of Chiral Analogues of FTY720 and its Phosphate," <u>Synthesis 2003</u>, No. 11, 1667-1670, 2003.</p> <p>HINTERDING et al., "First asymmetric synthesis of chiral analogues of the novel immunosuppressant FTY720," <u>Tetrahedron Letters</u>, 43 (2002) 8095-8097.</p>	0

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